

CLAIMS

1. Peptide corresponding to the formula (I)

W-Lys-Asp-Val-Z (I) (SEQ ID NO. 1-2)

5 or its peptide conjugate corresponding to the formula
(II)

A-W-Lys-Asp-Val-Z (II) (SEQ ID NO. 3-4)

in which

A represents the radical corresponding to

10 - a monocarboxylic acid of general formula (III)

HOOC-R (III)

in which

R represents a C1-C24 aliphatic radical, linear or branched, possibly substituted by a hydroxy group, capable of 15 including one or more unsaturations, advantageously from 1 to 6 unsaturations,

- lipoic acid or its reduced form, dihydrolipoic acid,

N-lipoyl-lysine, or retinoic acid,

20 and W represents

Glu-Gln-Arg, Arg-Lys, Arg-Lys-Asp, Arg or a bond,

when Z represents

Tyr-Val-Gln-Leu-Tyr-NH₂, Leu-DOPA, DOPA-NH₂, or Homophe-NH₂,

25 or W represents

Gly-Gln-Gln or Glu-Gln,

when Z represents

Tyr-Val-Gln-Leu-Tyr-NH₂, Leu-DOPA, Val-Tyr-OH, Val-Tyr-30 NH₂, Tyr-NH₂, Tyr-OH, DOPA-NH₂, or Homophe-NH₂,

in the form of enantiomers or diastereomers, as well as their mixtures, including racemic mixtures, the peptide of

formula (I) and the peptide conjugate of formula (II) which can be present in the form of complexes with zinc.

2. Peptide or peptide conjugate according to claim 1,
5 wherein the acid of general formula (III) is an omega-3 acid chosen among α -linolenic acid, cervonic acid, timnodonic acid, and pinolenic acid, or an aliphatic Cl-C24 radical chosen among acetic acid, myristic acid, palmitic acid, hydroxydecenoic and decenoic acids, and in particular, trans-
10 10-hydroxy- Δ 2-decenoic acid and trans-oxo-9-decene-2-oic acid, or an acid chosen among lipoic acid or its reduced form, dihydrolipoic acid, N-lipoyl-lysine, or retinoic acid.

3. Peptide or conjugate according to claim 1 or claim
15 2, wherein A is selected among lipoic acid and acetic acid.

4. Peptide conjugate according to one of the claims 1 to 3, wherein it is selected among

- 1- A-Arg-Lys-Asp-Val-DHomOPhe-NH2
- 20 2- A-Arg-Lys-Asp-Val-HomOPhe-NH2 (SEQ ID NO. 5)
- 3- A-Lys-Asp-Val-DOPA-NH2 (SEQ ID NO. 6)
- 4- A-DLys-Asp-Val-DOPA-NH2
- 5- A-Arg-Lys-Asp-Val-DOPA-NH2 (SEQ ID NO. 7)

A being an acid of general formula (III) such as defined
25 in one of the claims 1 to 3.

5. Cosmetic or pharmaceutical compound wherein it contains a peptide or a conjugate according to one of the claims 1 to 4.

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6. Cosmetic or dermatological compound according to claim 5, wherein it is intended for topical application.

7. Peptide or peptide conjugate according to one of the claims 1 to 4 for use as a medicine.

8. Peptide or peptide conjugate according to one of the 5 claims 1 to 4 for use as a medicine intended for the preventive and curative treatment of alopecia.

9. Use of a peptide or a peptide conjugate according to one of the claims 1 to 4 for the preparation of a compound 10 intended for the preventive and curative treatment of alopecia.

10. Cosmetic compound intended to combat hair loss, wherein it contains a peptide or a peptide conjugate according 15 to one of the claims 1 to 4.

11. Cosmetic compound according to claim 10, wherein it contains in addition a compound that improves hair growth, selected among minoxidil, nicotinic acid esters, anti-20 inflammatory agents, retinoic acid or its derivatives, retinol, or 5 α -reductase inhibitors.

12. Cosmetic compound according to claim 10, wherein it contains in addition a peptide corresponding to the general 25 formula (I)

X-Gly-His-Lys-Y (I) (SEQ ID NO. 8-9)

or its conjugate corresponding to the general formula (II)

A-X-Gly-His-Lys-Y (II) (SEQ ID NO. 10-11)

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in which

A is such as defined in one of the claims 1 to 3,

X represents a chain of 1 to 3 Lys residues, possibly methylated or, in the case of the formula (II), a bond,

Y represents an -OH or -NH₂ group,

5 or A-X represents a hydrogen atom,

in the form of enantiomers or diastereomers, as well as their mixtures, including racemic mixtures and complexes with zinc which can be formed with these peptides or peptide
10 conjugates.

13. Cosmetic compound according to one of the claims 10 to 12, wherein it contains a UVB filter chosen among: P-aminobenzoic acid or PABA and its esters such as Ethylhexyl dimethyl PABA or PEG-25 PABA; the cinnamates such as Ethylhexyl methoxycinnamate, Isoamyl p-methoxycinnamate, Octocrylene; the salicylates such as Homosalate, Ethylhexyl salicylate; the benzimidazoles such as Phenylbenzimidazole sulfonic acid; the benzylidene camphor derivatives such as 4-Methylbenzylidene camphor, Benzylidene camphor, Camphor benzalkonium methosulfate, and Polyacrylamidomethyl benzylidene camphor; and the triazines such as Ethylhexyl triazone and Diethylhexyl butamido triazone.

25 14. Cosmetic treatment method to combat hair loss wherein it includes the application on the scalp of a cosmetic compound according to one of the claims 10 to 13.

30 15. Food supplement wherein it contains a peptide or a peptide conjugate according to one of the claims 1 to 4, as well as, possibly, a compound that improves hair growth such as defined in claims 11 or 12.

16. Cosmetic treatment method to combat hair loss
wherein it includes the administration via the oral route of a
food supplement that includes a peptide or a peptide conjugate
according to one of the claims 1 to 4, as well as, possibly, a
5 compound that improves hair growth such as defined in claims
11 or 12.